Date Doc ID #

HODGES, HARBIN, NEWBERRY & TRIBBLE, INC. CONSULTING ENGINEERS

484 Mulberry Street • Suite 265 • Macon, Georgia 31201 P.O. Box 974 • Macon, Georgia 31202-0974

H. Lowry Tribble, Jr., PE William F. Hodges, PE Harold L. Newberry,PE W. Michael Stubbs, PE R. Brant Lane, PE Telephone (478) 743-7175 Fax (478) 743-1703

Website www.HHNT.com

January 31, 2008

CLINT L. COURSON DANIEL E. CHEEK, PE K. MATTHEW CHEEK, PE

> Ms. Amy Annechino NCDENR 1646 Mail Service Center Raleigh, NC 27699

Re:

East Carolina Regional MSW Landfill

Closure/Post-Closure Cost HHNT Project No. 6703-260-05

Dear Ms. Annechino:

I have enclosed the updated Closure/Post-Closure Cost Estimate for Financial Assurance on the subject project. The Closure/Post-Closure Costs were updated to include Cell 12.

Closure Costs	\$4,067,621.80
Post-Closure Costs	\$1,654,560.00
Total Financial Assurance	\$5 722 181 80

The amended financial assurance mechanism will be submitted under separate cover by April 19, 2008.

Should you have any questions, please call.

Sincerely,

HODGES, HARBIN, NEWBERRY & TRIBBLE, INC.

William F. Hodges, P.E. Professional Engineer

WFH/clc/ck

cc:

Ed Mussler, P.E. (w/ enclosure)

Ray Hoffman, P.E. (w/enclosure)

Bill Cooksey (w/enclosure)

Clint Courson (w/o enclosure)

Matt Cheek, P.E. (w/o enclosure)

Bradley Moore (w/o enclosure)

EAST CAROLINA REGIONAL MSW LANDFILL BERTIE COUNTY

FINANCIAL ASSURANCE CLOSURE COST ESTIMATE

January 2008

GENERAL

Largest Area Open:

Cells No. 3 - 12 = 92 acres

(4.5 acres previously closed)

CLOSURE (CARE	COST	ESTI	MATE

Soil cost \$0.25/C.Y Haul Cost \$1.00/C.Y Placement Cost \$0.30/C.Y	1 6" Topsoil 4,007,520 s.f. x 0.5 ft (soil cost \$0.50/C.Y Haul Cost \$1.80/0			ft³/cy Cost \$		74,213 ::Y.)	c.y.	@	\$2.60	=	\$192,954.67
835.871 s.f. x 1.5 ft. + 2.7 ht/cy = 46,437 c.y @ \$3.55 = \$164,852.34 (solid cost \$0.75/C.Y Hall Cost \$2.00/C.Y Placement Cost \$0.80/C.Y.) 4 Drainage Layer (Geofatic Geonet) Material Labor	4,007,520 s.f. x 1.5 ft						c.y.	@	\$2.00		\$445,280.00
Material Labor	835,871 s.f. x 1.5 ft						c.y.	@	\$3.55	=	\$164,852.34
Material & Installation	Material										
Pertilizer						4,007,520	s.f.	(a)	\$0.34	=	\$1,362,556.80
State Stat		; x	70	#/ac	=	6,440	#	@	\$3.50	=	\$22,540.00
Nulch		∕ac x	77	ac		69.00	tons	(A)	\$200.00	=	\$13,800.00
9 Mulch		ac x	77	ac	=	92		(A)	\$40.00	1700	
10 Labor for Seeding, Fertilizing, Liming & Mulching 92 ac @ \$200.00 = \$18,400.00 11 Silt Fence 1,000 l.f. @ \$3.00 = \$3,000.00 12 Final Disposal of Waste & Cleanup 200 tons @ \$30.00 = \$6,000.00 13 Downdrain Construction 2,300 l.f. @ \$12.00 = \$27,600.00 14 Ditch Lining (Gunite) 5,000 s.f. @ \$0.25 = \$1,250.00 15 Sediment Basin Cleanout 2,000 c.y. @ \$2.50 = \$5,000.00 16 Methane Gas Vents (1 vent per acre) 1 vent/ac x 92 ac = 92 vents @ \$1,000.00 = \$92,000.00 17 Leachate Tank, Containment System & Pumping Station Alarm System 1 L.S. @ \$4,000.00 = \$4,000.00 18 Waste Limit Survey 1 L.S. @ \$90,000.00 = \$2,500.00 19 Engineering and Closure Certification											
11 Silt Fence	10 <u>Labor for Seeding, Fertilizing, Liming &</u>	Mulchin	g					_			·
12 Final Disposal of Waste & Cleanup 200 tons 6 \$30.00 = \$6,000.00 13 Downdrain Construction 2,300 1.f. 6 \$12.00 = \$27,600.00 14 Ditch Lining (Gunite) 5,000 s.f. 6 \$0.25 \$1,250.00 15 Sediment Basin Cleanout 2,000 c.y. 6 \$2.50 = \$5,000.00 16 Methane Gas Vents (1 vent per acre) 1 vent/ac x 92 ac = 92 vents 6 \$1,000.00 = \$92,000.00 17 Leachate Tank, Containment System & Pumping Station Alarm System 1 L.S. 6 \$4,000.00 = \$4,000.00 18 Waste Limit Survey 1 L.S. 6 \$2,500.00 = \$2,500.00 19 Engineering and Closure Certification 1 L.S. 6 \$90,000.00 = \$90,000.00	11 Silt Fence					92	ac	(a)	\$200.00	7900	\$18,400.00
13 Downdrain Construction 2,300 1.f. @ \$12.00 = \$27,600.00 14 Ditch Lining (Gunite) 5,000 s.f. @ \$0.25 \$1,250.00 15 Sediment Basin Cleanout 2,000 c.y. @ \$2.50 = \$5,000.00 16 Methane Gas Vents (I vent per acre) I vent/ac x 92 ac = 92 vents @ \$1,000.00 = \$92,000.00 17 Leachate Tank, Containment System & Pumping Station Alarm System I L.S. @ \$4,000.00 = \$4,000.00 18 Waste Limit Survey I L.S. @ \$2,500.00 = \$2,500.00 19 Engineering and Closure Certification I L.S. @ \$90,000.00 = \$90,000.00	12 Final Disposal of Waste & Cleanup					1,000	l.f.	Œ.	\$3.00	=	\$3,000.00
2,300 1.f. @ \$12.00 = \$27,600.00 14 Ditch Lining (Gunite)	13 Downdrain Construction					200	tons	<u>@</u>	\$30.00	≐	\$6,000.00
15 Sediment Basin Cleanout 2,000 s.f. @ \$0.25 \$1,250.00 16 Methane Gas Vents (I vent per acre)						2,300	1. f.	<u>@</u>	\$12.00	1007	\$27,600.00
2,000 c.y. @ \$2.50 = \$5,000.00						5,000	s.f.	<u>a</u>	\$0.25		\$1,250.00
1 vent/ac x 92 ac = 92 vents @ \$1,000.00 = \$92,000.00 17 Leachate Tank, Containment System & Pumping Station Alarm System 1 L.S. @ \$4,000.00 = \$4,000.00 18 Waste Limit Survey	15 Sediment Basin Cleanout					2,000	c.y.	@	\$2,50		\$5,000.00
1 L.S. @ \$4,000.00 = \$4,000.00 18 Waste Limit Survey 1 L.S. @ \$2,500.00 = \$2,500.00 19 Engineering and Closure Certification 1 L.S. @ \$90,000.00 = \$90,000.00		ac x	92	ac	1000	92	vents	(A)	\$1,000.00	==	\$92,000.00
18 Waste Limit Survey 1 L.S. @ \$2,500.00 = \$2,500.00 19 Engineering and Closure Certification 1 L.S. @ \$90,000.00 = \$90,000.00	17 <u>Leachate Tank, Containment System & I</u>	umping S	Station /	Alarm	Systen		L.S	- @	\$4,000.00	1000	\$4,000,00
19 <u>Engineering and Closure Certification</u> 1 L.S. @ \$90,000.00 = \$90,000.00	18 Waste Limit Survey							_			
The state of the s	19 Engineering and Closure Certification									=	
TOTAL CLOSURE COST (2008) \$4,067,621.80								-		₩,	\$90,000.00 \$4,067,621.80

EAST CAROLINA REGIONAL MSW LANDFILL BERTIE COUNTY FINANCIAL ASSURANCE POST CLOSURE CARE COSTS

January 2008

Water Monitoring & Statistics (Includes Appendix I sampling, analysis & reporting)											
	Groundwater Surface Water	13 3	wells wells	@ @	2	events/yr events/yr	@	\$882.00 \$450.00		\$22,932.00 \$2,700.00	
	Canado Water	Ü	WCIIG	w	2	eventa/yi	w	φ450.00		\$2,700.00	
2	Methane Gas Monitori	<u>19</u> 11	wells	@	4	events/yr	@	\$80.00		\$3,520.00	
	0 5 (0.00)			_		CVC/110/91	(Ψ00.00		Ψ3,320.00	
3	3 Sediment & Erosion Control, Including Inspections, Repairs to Cap, Slope & Vegetation										
					1	L.S.	@	\$1,500.00	=	\$1,500.00	
4	Sediment Basin Clean	<u>out</u>									
					800	C.Y.	@	\$2.50	=	\$2,000.00	
5	Leachate Collection Tr	eatme	nt & Ana	lysis (A	verage	over 30 Yea	rs)				
					1	L.S.	@	\$15,000.00	==	\$15,000.00	
6	Alarm System Monitori	ng									
					1	L.S.	@	\$500.00	=	\$500.00	
7	Engineering Inspection	s									
					4	yr	@	\$1,000.00	==	\$4,000.00	
8	Air Emissions Testing										
					1	yr	@	\$2,000.00		\$2,000.00	
	\$54,152.00										
9 Leachate System Decommissioning (one-time cost)											
					1	L.S.	@	\$30,000.00		\$30,000.00	
	\$1,654,560.00										